JAFFNA HINDU COLLEGE

Risk Holiday Self - Education Worksheet - 2020

Grade – 10 | Information& Communication Technology

Name/Index No : ....

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Answer all questions based on 1ˢᵗ and 2ⁿᵈ units.
Part I

1. In the evolution of computers, the transistor was replaced by the Integrated Circuit(IC) and the IC was later replaced by the microprocessor. In this process, the .... of the computer decreased while .... increased.
   1) cost, efficiency
   2) physical size, efficiency
   3) capacity, cost
   4) capacity, physical size

2. Consider the following conversion of data into information with fill in the most suitable term,
   Data -----> .... ------> Information
   1) processing
   2) developing
   3) testing
   4) implementing

3. Consider the following devices.
   A – Plotter   B – Digitizer   C – Scanner
   Which of the above is / are usually used as an input device / devices of the computer?
   1) A and B
   2) B and C
   3) A and C
   4) All of the above

4. What is the camera commonly used to maintain road safety?
   1) Digital camera
   2) Film roll camera
   3) CCTV camera
   4) None of the above

5. Consider the correct order decrease of them data access speed?
   1) Register, RAM, Cache memory, ROM
   2) ROM, RAM, Cache memory, Register
   3) Register, Cache memory, RAM, ROM
   4) Register, Cache memory, ROM, RAM

6. What is the memory used to erase programmes within ultra waves?
   1) True-ROM
   2) PROM
   3) EPROM
   4) EEPROM

7. The most usage of cache memory is,
   1) Storing system files
   2) Storing data permanently
   3) Storing instructions used most frequently and temporarily
   4) None of the above

8. How many pins consist into Serial port?
   1) 15
   2) 25
   3) 10
   4) 9

9. Computer has a memory (RAM) capacity of 8GB. Which of the following is equivalent to the RAM capacity of the computer?
   1) 8192 Bytes
   2) 8192 KB
   3) 8192 MB
   4) 8192 GB

10. Which of the following device has sequential accessed data?
    1) Magnetic tape
    2) Hard disk drive
    3) Floppy disk drive
    4) Flash drive

11. Which of the following correct during programme execution on the CPU?
    1) Data & instructions brought from hard disk.

2) Data & instructions brought from RAM.
3) Instructions are brought from hard disk and data are brought from RAM.
4) Instructions are brought from RAM and data are brought from hard disk.

12. Which of the following has the highest file size?
   1) .psd file of 10KB   2) .doc file of 10KB
   3) .psd file of 15KB   4) .doc file of 20KB

13. Which of the following potential benefit of a computer network and it is connected to the Internet?
   1) Reduce risk of malware software
   2) Sharing resource in the network
   3) Accessing files and folders
   4) Removing files in your PC

14. Which of the following correct statement based on G2G services?
   A – Annual trip at Singarajah forest
   B – Map for tourists
   C – Conducted criminal cases in court with government laws
   1) A & B   2) B & C   3) A & C   4) All of the above

15. What is the statement based on attractive classroom environment?
   1) Accessing smart boards for teaching learning process.
   2) Teaching with black board with chalk.
   3) gathering educational information from text book
   4) None of the above

16. In which type of teaching & learning process isn't help in minimizing the difficulties of travelling & related expenses?
   1) WBT   2) LMS   3) e-learning   4) classroom teaching

17. What is the device is used to diagnosis of diseases with 3D images of different parts of the body?
   1) CAT   2) MRI   3) ECG   4) EEG

18. A patient gets treatment from far away process by trained person with a specialist in a hospital called as,
   1) tele-surgery   2) tele-medicine   3) tele-training   4) none of the above

19. Who is invented a mechanical loom machine in hardware generation of the computer?
   1) Joseph Jacquard   2) Pascal   3) Charles Babbage   4) Howard Aiken

20. In which type of language developed by Ada Augusta LoveLace?
   1) Machine language   2) High level language
   3) Assembly language   4) Operational language

(2 X 20 = 40 marks)

Part II

1)
1. Give two e-government services for G2E?
2. In which machine used to record the activities of the brain?
3. What is the device used to calculate number of animals in a large area of farm house?
4. Give two examples for benefits of using robots?
5. What are the advantages of usage of online shopping?
6. Give two demerits to usage of ICT?
7. In which machine consists basic concept of computer system, that can be invented by Charles Babbage?
8. Who is the first programmer?
9. What are basic functions consist in Adding machine?
10. Write down an example for hybrid technology function of the machine.

(20 marks)

2)Convert the number with computations.
1. Binary to decimal conversion.
     1) 110110   2) 10101011   3) 1111100
2. Decimal to octal conversion.
     4) 98   5) 340   6) 91
3. Hexadecimal to decimal conversion.
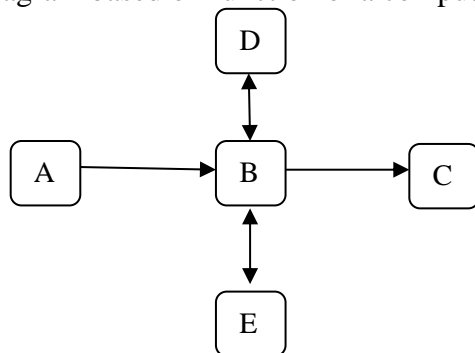   7) A1   8) 3BC   9) 4F   10) 78D   (10 marks)

3)
1. What is the generation used tape and floppy disk technology?
2. In which generation invented ENIAC system?
3. What is the hardware technology used in 5th generation?
4. In which generation introduced operating system?
5. In which generation introduced punch card system?   (10 marks)

4) The diagram based on function of a computer system.

1. What are the three components into E label?
2. What is the name of the label display data to the user?
3. Give an example for D label?
4. Write down a feature of label B?
5. What is the name of the device used in label B?   (10 marks)

5)
1. What are the three basic components into data transmission system?
2. What is the data transmission media is very higher speed rather than other media?
3. Write down two techniques used with radio waves?
4. What are the three types of data transmission modes?   (10 marks)